

--	--	--	--	--	--	--	--	--	--

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2017/2018

MSD7333 – DATABASE SYSTEM & SYSTEM ANALYSIS
(All sections / Groups)

04 OCTOBER 2017
10.00 a.m. – 12.00 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 2 pages including cover page with 5 Questions only.
2. Answer **FOUR** out of **FIVE** questions. All questions carry equal marks and the distribution of the marks for each question is given.
3. Please print all your answers in the answer Booklet provided.

QUESTION 1

Suppose that you are a database administrator of an online bookshop. You plan to integrate a case-based reasoning system with the existing database. Provide a proposal to justify your plan.

[10 marks]

QUESTION 2

Suppose that you are responsible to plan and implement a new multidimensional database. Describe the database life cycle for the whole process.

[10 marks]

QUESTION 3

Explain briefly each of the following concepts:

- (a) Hierarchical tree
- (b) Offline database
- (c) Snapshot replication
- (d) Merge log
- (e) Relational Online Analytical Processing (ROLAP)

[10 marks]

QUESTION 4

Discuss the importance of reliability in database design. In your opinion, how to achieve the goal of a reliable database?

[10 marks]

QUESTION 5

Data mining is useful in knowledge generation. Discuss in-depth four data mining techniques that can be used in a bank.

[10 marks]